A Practitioner's View: The Value of Cloud

911 Emerging Technology Forum

OAKLAND COUNTY MICHIGAN

9/28/2021

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AGENDA

□ **THE VALUE OF CLOUD**

□ **What Does it Really Mean?**

□ **How Do I Get to the Cloud?**
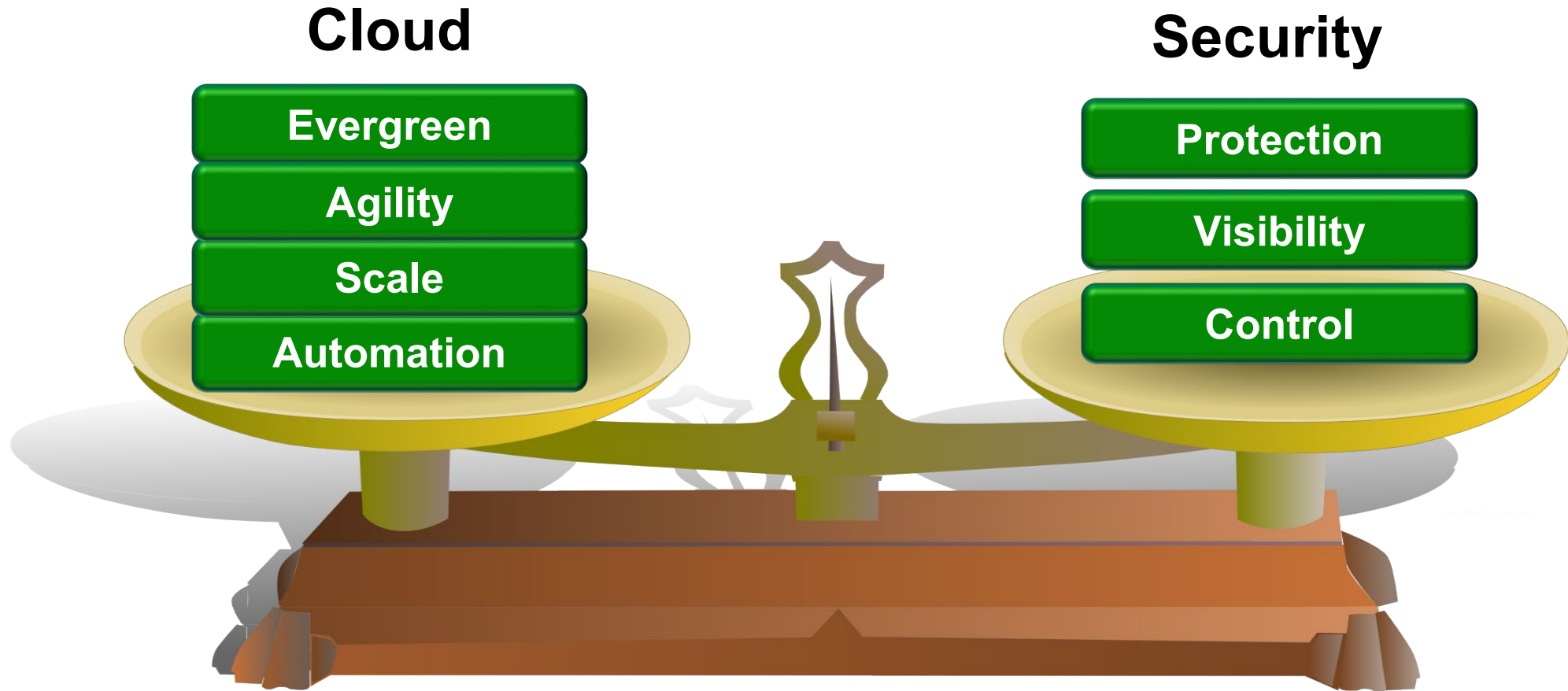
□ **Is it Safe?**

□ **Why Do it?**

Cloud Terms

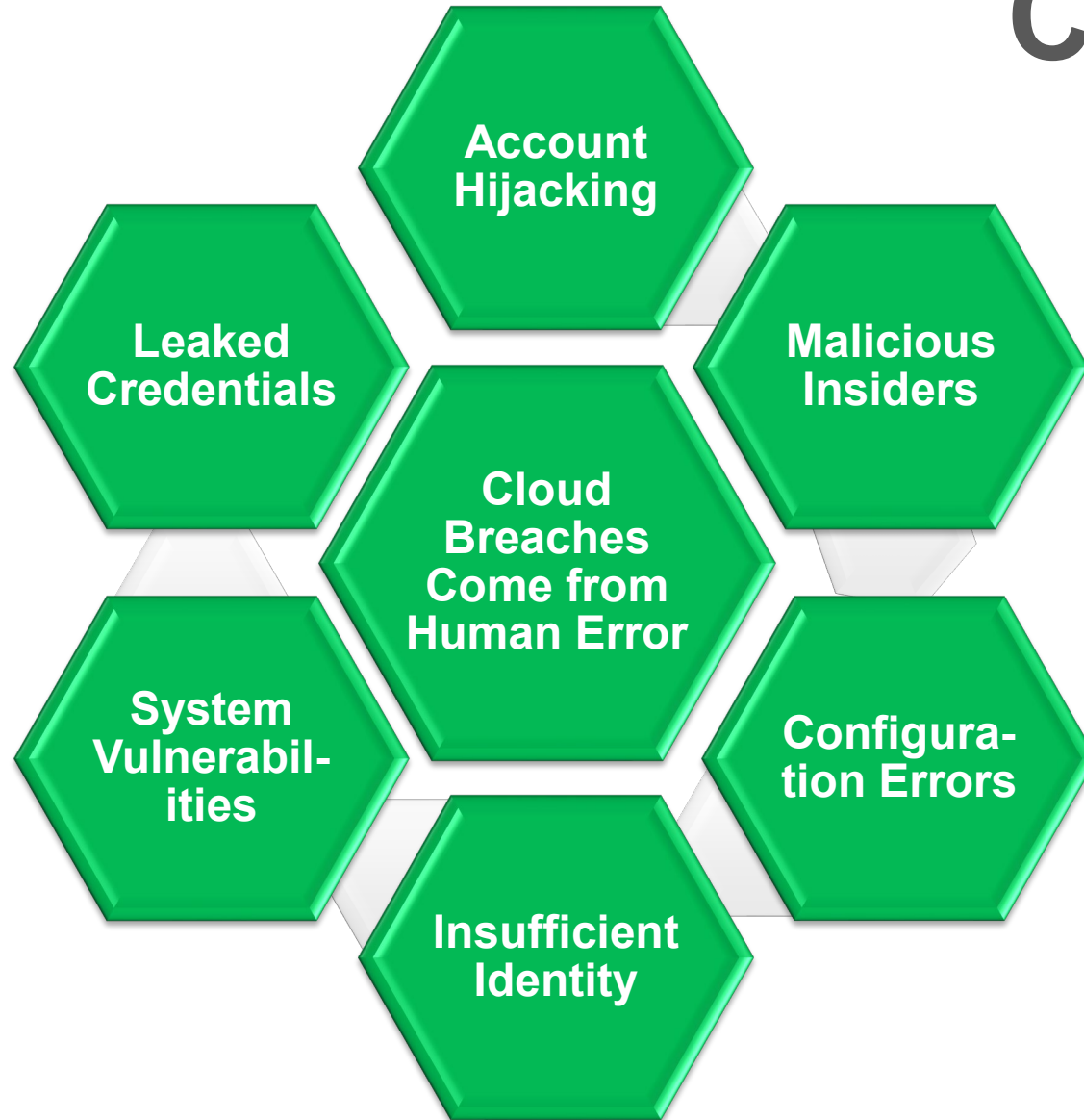# Creating a Cloud Strategy

Key Considerations:

- Data Attributes where you would look at sensitivity, privacy, volume and volatility

- Disaster Recovery and Business Continuity including your return to service objectives

- Costs including software licensing, connection fees and usage fees

- Application Readiness

- Security and Compliance Features such as CJIS, HIPAA, PCI, FIPS and others

Balance Is Essential

Causes of Cloud Breaches

- Account Hijacking
- Leaked Credentials
- Malicious Insiders
- System Vulnerabilities
- Cloud Breaches Come from Human Error
- Configuration Errors
- Insufficient Identity

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Creating a Secure Cloud

Cloud Security Framework

Focus on Business Outcomes…	Design from the inside out…	Least privilege is a must…	Log and inspect everything…
What happens if the information is leaked	Protect data from within as opposed to blocking outside in	Provide the correct access for doing the job	SIEM and IDS are essential in your defense planning

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Cloud Security Take-Aways!

- Cloud breaches occur like on-premise breaches…human error
- Understanding your data is essential to cost effective cloud security
- Securing the perimeter is no longer the gold standard for security
- Unified identity and access management is critical to success
- On the horizon, embrace "Passwordless" authentication

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Why Do It?

- CapEx v OpEx
- Evergreen
- Resiliency
- Flexibility
- Carbon Footprint
- Accessibility
- Innovation

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- ### Is it Safe?
- ### Why Do it?

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Thank you!